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TI Production of wear-resistant boride layers on metallic surfaces - by mixing boron halide with hydrogen and optionally argon and nitrogen to form reaction gas, activating mixture etc..

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Production of wear-resistant boride layers on metallic surfaces comprises mixing a boron halide as boron carrier, selected from boron trifluoride, boron tribromide and boron triiodide, with hydrogen and optionally argon and/or nitrogen to produce a reaction gas containing 1-35 vol.% boron halide, and activating the mixture obtained using plasma discharge, so that boron transition from the plasma to the metal surface is made possible.

USE - The process is used for boriding iron materials.

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